

## APPENDIX A

©1995 Civix Corporation

FOR U.S. PATENT APPLICATION ENTITLED  
"SYSTEM AND METHODS FOR REMOTELY ACCESSING  
A SELECTED GROUP OF ITEMS OF INTEREST FROM A DATABASE"

0001629 62891860

FULL CODE LISTING FOR VERSION 0.3 OF IN\_VICINITY LOCATOR  
 Copyright 1994-95 OXKO Corporation

```

Sub AboutClvix_Click ()
    frmAbout.Show 1
End Sub

Sub cmbCategories_Click ()
    cmdUpdate.Enabled = True
End Sub

Sub cmbHeadings_Click ()
    If curHeadingStr <> cmbHeadings.Text Then
        DeleteCategories
        curHeadingStr = cmbHeadings.Text
        GetHeadingIndex (curHeadingStr)
        GetCategories (curHeadingIndex)
        If NumberOfCategories > 0 Then
            curCategoryStr = CategorySet!Category
            GetCategoryIndex (curCategoryStr)
            CategorySet.MoveFirst
            For i = 1 To NumberOfCategories - 1
                cmbCategories.AddItem CategorySet!Category
                CategorySet.MoveNext
            Next
            cmbCategories.AddItem CategorySet!Category
            cmbCategories.Text = cmbCategories.List(0)
            cmdUpdate.Enabled = True
        End If
    End If
End Sub

Sub cmdUpdate_Click ()
    If ItemNamesOn = True Then
        TItemNamesOn = True
        HideNames (NumberOfItems)
    End If
    HideItems

```

FOUO 6289T86D

```
curCategoryStr = cmbCategories.Text
GetCategoryIndex (curCategoryStr)

Panel3D7.Caption = Cities(CurrentCityIndex).Name
Panel3D9.Caption = Areas(CurrentLocation).Name
Panel3D11.Caption = curCategoryStr
cmdUpdate.Enabled = False
ShowItems (curCategoryIndex)
If TitemNamesOn = True Then
    ShowNames (NumberOfItems)
End If
lblPopItem.Visible = False

End Sub

Sub cmdZoom_Click ()
    lblPopCityArea.Visible = False
    If ZoomLevel = "City" Then 'zoom up to country map
        If AreaNamesOn Then
            HideNames (NumberOfAreas)
        End If
        HideAreas
        ShowCities
        picMain.Picture = picUSA.Picture
        cmdZoom.Visible = False
        Panel3D1.Visible = False
        Panel3D4.Visible = True
        lblUSMapCaption.Visible = False
        Panel3D7.Caption = "None"
        Panel3D9.Caption = "None"
        Panel3D11.Caption = "None"
        lblPopCityArea.Visible = False
        ZoomLevel = "Country"
        HelpShowNames.Checked = False
        If CityNamesOn Then
            ShowNames (NumberOfCities)
        End If
    End If
    If ZoomLevel = "Location" Then 'zoom up to city map
```

```

If ItemNamesOn Then
  HideNames (NumberOfItems)
End If
picMain.Picture = CityPicture.Picture
cmdZoom.Caption = "U.S. Map"
HideItems
ShowAreas
  ' show the areas on the map
  ZoomLevel = "City"
  picPort.Visible = False
  picMain.Visible = True
  Panel3D3.Visible = False
  cmbCategories.Visible = False
  cmbHeadings.Visible = False
  cmdUpdate.Visible = False
  Panel3D2.Visible = False
  lblUSMapCaption.Visible = True
  p3DItemInfo.Visible = False
  p3DStreetAddLbl.Visible = False
  p3DStreetAdd.Visible = False
  p3DPhoneLbl.Visible = False
  p3DPhone.Visible = False
  p3DFaxLbl.Visible = False
  p3DFaxNumber.Visible = False
  'p3DDescLbl.Visible = False
  'p3DDescription.Visible = False
  picSponsorAd.Visible = False

  curCategoryStr = ""
  Panel3D9.Caption = "None"
  Panel3D11.Caption = "None"
  HelpShowNames.Checked = False
  If AreaNamesOn Then
    ShowNames (NumberOfAreas)
  End If
End If
End Sub

Sub FileExit_Click ()
  End

```

FOE2ED" 62B9T860

```
End Sub

Sub FilePrint_Click ()
    CMDialog1.CancelError = True
    On Error GoTo ErrHandler

    CMDialog1.Action = 5
    PrintForm

ErrHandler:
    Exit Sub
End Sub

Sub Form_Load ()

    ReDim Cities(1)

    'delivery only
    'Set DB = OpenDatabase("civix.mdb")

    'development only
    Set DB = OpenDatabase("t:\client\civix\proto\current\civix.mdb")
    Set GlobalSet = DB.Createdynaset("SELECT * from Globals")

    PortXPix = GlobalSet!PortPixelsX
    PortYPix = GlobalSet!PortPixelsY
    CityXPix = GlobalSet!CityPixelsX
    CityYPix = GlobalSet!CityPixelsY
    PortXGrid = GlobalSet!Port Width
    PortYGrid = GlobalSet!Port Height
    'MsgBox "XP: " & PortXPix & "YP: " & PortYPix & "XG: " & PortXGrid & "YG: " & PortYGrid

    Set CitySet = DB.Createdynaset("CitySet")
    Panel3D7.Caption = "None"
    Panel3D9.Caption = "None"
    Panel3D11.Caption = "None"
    GetNumberOfCities
    GetCities
```

TOE2EO" 6289T860

```
    PixelsWide = Form1.picMain.Width + 10
    PixelsHigh = Form1.picMain.Height + 15
    ZoomLevel = "Country"
End Sub
```

```
Sub HelpShowNames_Click ()
    Select Case ZoomLevel
    Case "Country"
        If CityNamesOn Then
            HideNames (NumberOfCities)
            CityNamesOn = False
        Else
            ShowNames (NumberOfCities)
            CityNamesOn = True
        End If
    Case "City"
        If AreaNamesOn Then
            HideNames (NumberOfAreas)
            AreaNamesOn = False
        Else
            ShowNames (NumberOfAreas)
            AreaNamesOn = True
        End If
    Case "Location"
        If ItemNamesOn Then
            HideNames (NumberOfItems)
            ItemNamesOn = False
        Else
            ShowNames (NumberOfItems)
            ItemNamesOn = True
        End If
    End Select
End Sub
```

```
Sub HideNames (NumNames)
```

```
    HelpShowNames.Checked = False
    Select Case ZoomLevel
```

FOE2EO"6289T860

```
Case "Country"
  For i = 1 To NumNames
    Unload LabelName(i)
  Next
Case "City"
  For i = 1 To NumNames
    Unload LabelName(i)
  Next
Case "Location"
  For i = 1 To NumNames
    Unload LabelNameb(i)
  Next
End Select
End Sub

Sub MoveToAreaMap (Index As Integer)
  If CityNamesOn = True Then
    HideNames (NumberOfCities)
  End If
  picCityPick(Index).BackColor = &H0&
  picUSA.Picture = picMain.Picture
  CityBmpName = GetCityBmpName(Index)

  'use the next line for delivery only
  'picMain.Picture = LoadPicture(CityBmpName)

  'use the next line during development only
  picMain.Picture = LoadPicture("t:\client\civix\proto\current\" & CityBmpName)

  HideCities
  CurrentCityKey = Cities(Index).Key
  CurrentCityIndex = Index
  Panel3D7.Caption = Cities(Index).Name
  Panel3D9.Caption = "None"
  Panel3D11.Caption = "None"
  lblUSMapCaption.Visible = True
  ShowAreas
  cmdZoom.Caption = "U.S. Map"
  lblPopCityArea.Visible = False
```

```

lblPopItem.Visible = False
ZoomLevel = "City"
If AreaNamesOn = True Then
    ShowNames (NumberOfAreas)
End If

```

End Sub

```

Sub MoveToLocationMap (Index As Integer)
    If AreaNamesOn = True Then
        HideNames (NumberOfAreas)
    End If
    lblPopCityArea.Visible = False
    lblPopItem.Visible = False
    picCityPick(Index).BackColor = &H0&
    Form1.MousePointer = 1
    CityPicture.Picture = picMain.Picture

```

AreaBmpName = GetAreaBmpName(Index)

```

'use the next line for delivery only
'picMain.Picture = LoadPicture(AreaBmpName)

```

```

'use the next line during development only
picPort.Picture =
    LoadPicture("t:\client\civix\proto\current\" &
        AreaBmpName)

```

```

CurrentLocation = Index
HideAreas
lblUSMapCaption.Visible = False
p3DItemInfo.Visible = True
p3DStreetAddLbl.Visible = True
p3DPhoneLbl.Visible = True
p3DFaxLbl.Visible = True
'p3DDescLbl.Visible = True
picSponsorAd.Visible = True

p3DStreetAdd.Visible = True

```



```
p3DPhone.Visible = True
p3DFaxNumber.Visible = True
'p3DDescription.Visible = True
```

```
p3DStreetAdd.Caption = ""
p3DPhone.Caption = ""
p3DFaxNumber.Caption = ""
p3DDescription.Caption = ""
p3DItemInfo.Caption = "Item Data"
```

```
Panel3D2.Visible = True
Panel3D3.Visible = True
Panel3D5.Visible = True
cmdUpdate.Visible = True
picPort.Height = PortYPix
picPort.Width = PortXPix
picPort.Visible = True
picMain.Visible = False
cmbCategories.Visible = True
cmbCategories.Clear
cmbHeadings.Visible = True
cmbHeadings.Clear
GetHeadings
```

```
If NumberOfHeadings > 0 Then
```

```
HeadingsSet.MoveFirst
```

```
For i = 1 To NumberOfHeadings - 1
```

```
    cmbHeadings.AddItem HeadingsSet!Heading
```

```
    HeadingsSet.MoveNext
```

```
Next
```

```
cmbHeadings.AddItem HeadingsSet!Heading
```

```
curHeadingStr = cmbHeadings.List(0)
```

```
cmbHeadings.Text = cmbHeadings.List(0)
```

```
End If
```

```
GetHeadingIndex (curHeadingStr)
```

```
GetCategories (curHeadingIndex)
```

```
If NumberOfCategories > 0 Then
```

```
    CategorySet.MoveFirst
```

```
For i = 1 To NumberOfCategories - 1
```

```
    cmbCategories.AddItem CategorySet!Category
```

```

CategorySet.MoveNext
Next
cmbCategories.AddItem CategorySet!Category
cmbCategories.Text = cmbCategories.List(0)
CategorySet.MoveFirst
curCategoryStr = cmbCategories.Text
GetCategoryIndex (curCategoryStr)
ShowItems (curCategoryIndex)
End If
Panel3D7.Caption = Cities(CurrentCityIndex).Name
Panel3D9.Caption = Areas(CurrentLocation).Name
Panel3D11.Caption = curCategoryStr
cmdZoom.Caption = Cities(CurrentCityIndex).Name & " Map"
ZoomLevel = "Location"
If ItemNamesOn = True Then
    ShowNames (NumberOfItems)
End If

End Sub

Sub picAreaPick_Click (Index As Integer)
    MoveToLocationMap (Index)
End Sub

Sub picAreaPick_GotFocus (Index As Integer)
    picAreaPick(Index).BackColor = &H0&
    If Not AreaNamesOn Then
        lblPopCityArea.Caption = Areas(Index).Name

        topl = picAreaPick(Index).Top
        left1 = picAreaPick(Index).Left + 10
        If (left1 + lblPopCityArea.Width) > picMain.Width Then
            left1 = picMain.Width - lblPopCityArea.Width
            topl = topl - 20
        End If
        If topl < 0 Then
            topl = topl + 10
        End If
        lblPopCityArea.Top = topl
    End Sub

```

```

top1 = top1 - 30
End If
If top1 < 0 Then
    top1 = top1 + 10
End If
lblPopCityArea.Top = top1
lblPopCityArea.Left = left1
lblPopCityArea.Visible = True
End If

End Sub

Sub picCityPick_KeyPress (Index As Integer, KeyAscii As Integer)
    If KeyAscii = 13 Or KeyAscii = 43 Then
        MoveToAreaMap (Index)
    End If
End Sub

Sub picCityPick_LostFocus (Index As Integer)
    picCityPick(Index).BackColor = &HFFFFFFF
End Sub

Sub picCityPick_MouseMove (Index As Integer, Button As Integer,
    Shift As Integer, X As Single, Y As
    Single)

    Form1.MousePointer = 10
    picCityPick(Index).SetFocus
End Sub

Sub picItemPick_GotFocus (Index As Integer)

    picItemPick(Index).BackColor = &H0&
    If Not ItemNamesOn Then
        lblPopItem.Caption = Items(Index).Name
    top1 = picItemPick(Index).Top

```

```

left1 = picItemPick(Index).Left + 10
If (left1 + lblPopItem.Width) > picPort.Width Then
    left1 = picPort.Width - lblPopItem.Width
    topl = topl - 10
End If
If topl < 0 Then
    topl = topl + 10
End If
lblPopItem.Top = topl
lblPopItem.Left = left1
lblPopItem.Visible = True
p3DStreetAdd.Caption = Items(Index).StreetAdd
p3DPhone.Caption = Items(Index).Phone
p3DFaxNumber.Caption = Items(Index).Fax
p3DDescription.Caption = Items(Index).Description
p3DItemInfo.Caption = "Item Data for " &
    Items(Index).Name
End If

End Sub

Sub picItemPick_LostFocus (Index As Integer)
    picItemPick(Index).BackColor = &HFFFFFFF
End Sub

Sub picItemPick_MouseMove (Index As Integer, Button As Integer,
    Shift As Integer, X As Single, Y As
    Single)
    Form1.MousePointer = 10
    picItemPick(Index).SetFocus
End Sub

Sub picMain_Click ()
    Beep
End Sub

```

FORM1.MOVE 62897860

```
Sub picMain_MouseMove (Button As Integer, Shift As Integer, X As
    Single, Y As Single)
    Form1.MousePointer = 1
End Sub

Sub picPort_Click ()
    Beep
End Sub

Sub picPort_MouseMove (Button As Integer, Shift As Integer, X As
    Single, Y As Single)
    Form1.MousePointer = 1
End Sub

Sub ShowNames (NumNames)
    lblPopCityArea.Visible = False
    lblPopItem.Visible = False
    HelpShowNames.Checked = True

    Select Case ZoomLevel
    Case "Country"
        For i = 1 To NumNames
            Load LabelName(i)
            LabelName(i).Caption = Cities(i).Name
            top1 = picCityPick(i).Top
            left1 = picCityPick(i).Left + 10
            If top1 < 0 Then
                top1 = top1 + 4
            End If
            LabelName(i).Top = top1
            LabelName(i).Left = left1
            LabelName(i).Visible = True
        Next
    Case "City"
        For i = 1 To NumNames
            Load LabelName(i)
            LabelName(i).Caption = Areas(i).Name
```

```

top1 = picAreaPick(i).Top
left1 = picAreaPick(i).Left + 10
If top1 < 0 Then
    top1 = top1 + 4
End If
LabelName(i).Top = top1
LabelName(i).Left = left1
LabelName(i).Visible = True
Next
Case "Location"
    For i = 1 To NumNames
        Load LabelNameb(i)
        LabelNameb(i).Caption = Items(i).Name
        top1 = picItemPick(i).Top
        left1 = picItemPick(i).Left + 10
        If top1 < 0 Then
            top1 = top1 + 4
        End If
        LabelNameb(i).Top = top1
        LabelNameb(i).Left = left1
        LabelNameb(i).Visible = True
    Next
End Select
End Sub

Sub cmdAboutOK_Click ()
    frmAbout.Hide
End Sub

```

Copyright 1994 The OXKO Corporation  
This software developed by The OXKO

Corporation for CIVIX. The ownership  
 of the software shall transfer to CIVIX  
 upon payment as arranged.

Global NumberOfCities As Long  
 Global NumberOfAreas As Long  
 Global NumberOfItems As Long  
 Global NumberOfCategories As Long  
 Global NumberOfHeadings As Long  
 Global ZoomLevel As String  
 Global CitySet As Dynaset  
 Global AreaSet As Dynaset  
 Global ItemSet As Dynaset  
 Global CategorySet As Dynaset  
 Global HeadingsSet As Dynaset  
 Global GlobalSet As Dynaset

Global CurrentCityIndex As Long  
 Global CurrentLocation As Long  
 Global CurrentCityKey As Long  
 Global curCategoryStr As String  
 Global curCategoryIndex As Integer  
 Global curHeadingStr As String  
 Global curHeadingIndex As Integer  
 Global Db As Database  
 Type CityRecord

Name As String  
 MapName As String  
 Key As Long  
 XCoord As Long  
 YCoord As Long  
 MaxXGrid As Long  
 MaxYGrid As Long  
 End Type  
 Type AreaRecord  
 Name As String

```

MapName As String
XCoord As Long
YCoord As Long
End Type
Type ItemRecord
Name As String
StreetAdd As String
Key As Long
Category As String
XCoord As Long
YCoord As Long
Directions As String
Description As String
Phone As String
Fax As String
OwnerManager As String
Title As String
OtherAddress As String
End Type
Global Cities() As CityRecord
Global Areas() As AreaRecord
Global Items() As ItemRecord
Global CityBmpName As String
Global AreaBmpName As String
Global CityNamesOn As Integer
Global AreaNamesOn As Integer
Global ItemNamesOn As Integer
Global PortXPix As Integer
Global PortYPix As Integer
Global CityXPix As Integer
Global CityYPix As Integer
Global PortXGrid As Integer
Global PortYGrid As Integer

Sub DeleteCategories ()
CategorySet.Close
Form1.cmbCategories.Clear
End Sub
' bitmap for a city
' bitmap for a intersectional point

```



FOE22EO" 6299T860

Function GetAreaBmpName (Index As Integer)

    GetAreaBmpName = Areas(Index).MapName

End Function

Sub GetCategories (Key As Integer)

    Set CategorySet = Db.CreateDynaset("SELECT DISTINCTROW  
    Categories.Category, Categories.Index FROM Categories  
    WHERE (Categories.Heading = " & Key & ") WITH  
    OWNERACCESS OPTION; ")

    If Not CategorySet.EOF Then

        CategorySet.MoveLast

        NumberOfCategories = CategorySet.RecordCount

        CategorySet.MoveFirst

        'MsgBox "Cats : " & NumberOfCategories

    Else

        MsgBox "No Items for this Heading!"

    End If

End Sub

Sub GetCategoryIndex (curCategoryStr As String)

    CategorySet.MoveFirst

    While Not CategorySet.EOF

        If CategorySet!Category = curCategoryStr Then

            curCategoryIndex = CategorySet!Index

        End If

    CategorySet.MoveNext

Wend

End Sub

Sub GetCities ()

    Index = 1

    CitySet.MoveFirst

```

While Not CitySet.EOF
    Cities(Index).MapName = CitySet!FileName
    Cities(Index).Key = CitySet!CityKey
    Cities(Index).Name = CitySet!Name
    Cities(Index).XCoord = CitySet!XCoord
    Cities(Index).YCoord = CitySet!YCoord
    Cities(Index).MaxXGrid = CitySet!MaxXGrid
    Cities(Index).MaxYGrid = CitySet!MaxYGrid
    Load Form1.picCityPick(Index)
    Form1.picCityPick(Index).Top = Cities(Index).YCoord
    Form1.picCityPick(Index).Left = Cities(Index).XCoord
    Form1.picCityPick(Index).Visible = True
    CitySet.MoveNext
    Index = Index + 1
Wend

```

End Sub

Function GetCityBmpName (Index As Integer)

```

    GetCityBmpName = Cities(Index).MapName

```

End Function

Sub GetHeadingIndex (HeadingStr As String)

```

    HeadingsSet.MoveFirst
    While Not HeadingsSet.EOF
        If HeadingsSet!Heading = HeadingStr Then
            curHeadingIndex = HeadingsSet!Index
        End If
    HeadingsSet.MoveNext
Wend

```

End Sub

```

Sub GetHeadings ( )

Set HeadingsSet = Db.Createdynaset("SELECT DISTINCTROW
CatHeadings.Heading, CatHeadings.Index FROM CatHeadings
WITH OWNERACCESS OPTION;")

If Not HeadingsSet.EOF Then
    HeadingsSet.MoveLast
    NumberOfHeadings = HeadingsSet.RecordCount
    HeadingsSet.MoveFirst
    curHeadingStr = HeadingsSet!Heading
Else
    MsgBox "No Headings!"
End If

End Sub

Sub GetNumberOfCities ( )

If Not CitySet.EOF Then
    CitySet.MoveLast
    NumberOfCities = CitySet.RecordCount
Else
    MsgBox "No Cities, cannot continue"
End If
End If
ReDim Cities(NumberOfCities)

End Sub

Sub HideAreas ( )

If NumberOfAreas > 0 Then
    For i = 1 To NumberOfAreas
        Form1.picAreaPick(i).Visible = False
    Next
End If

```

End Sub

Sub HideCities ()

```
Form1.cmdZoom.Visible = True
Form1.Panel3D1.Visible = True
Form1.Panel3D4.Visible = False
For i = 1 To NumberOfCities
    Form1.picCityPick(i).Visible = False
Next
```

End Sub

Sub HideItems ()

```
For i = 1 To NumberOfItems
    Unload Form1.picItemPick(i)
Next
```

ReDim Items(1)

NumberOfItems = 0

End Sub

Sub ShowAreas ()

```
If NumberOfAreas > 0 Then
    For i = 1 To NumberOfAreas
        Unload Form1.picAreaPick(i)
    Next
    ReDim Areas(1)
    NumberOfAreas = 0
End If
```

```
Set AreaSet = Db.CreateDynaset("SELECT Locations.City,
Locations.Name, Maps.FileName, Locations.LocationKey,
GridCoord.XCoord, GridCoord.YCoord FROM Locations,
Maps, GridCoord, Locations LEFT JOIN Maps ON
Locations.MapName = Maps.Name, Locations LEFT JOIN
GridCoord ON Locations.GridLoc = GridCoord.GridKey
where city = " & CurrentCityKey & " WITH OWNERACCESS
OPTION;")
```

```

If Not AreaSet.EOF Then
    AreaSet.MoveLast
    NumberOfAreas = AreaSet.RecordCount
Else

```

```

    Exit Sub
End If

```

```

ReDim Areas(NumberOfAreas)

```

```

Index = 1
AreaSet.MoveFirst
While Not AreaSet.EOF
    Areas(Index).MapName = AreaSet!FileName
    Areas(Index).Name = AreaSet!Name
    Areas(Index).XCoord = AreaSet!XCoord
    Areas(Index).YCoord = AreaSet!YCoord
    Load Form1.picAreaPick(Index)

```

```

'MsgBox "CityXPix: " & CityXPix & " CityYPix: " &
    "CityYPix

```

```

'MsgBox "CityMaxX: " & Cities(CurrentCityIndex).MaxXGrid
    & " CityYMax: " &
    Cities(CurrentCityIndex).MaxYGrid

```

```

'MsgBox "X: " & Areas(Index).XCoord & " Y: " &
    Areas(Index).YCoord

```

```

Form1.picAreaPick(Index).Left = CityXPix *
    (Areas(Index).XCoord /
    Cities(CurrentCityIndex).MaxXGrid)

```

```

Form1.picAreaPick(Index).Top = CityYPix *
    (Areas(Index).YCoord /
    Cities(CurrentCityIndex).MaxYGrid)

```

TOE2E0" 6289T860

```
Form1.picAreaPick(Index).Visible = True
AreaSet.MoveNext
Index = Index + 1
Wend
```

End Sub

Sub ShowCities ()

```
Form1.cmdZoom.Visible = False
Form1.Panel3D1.Visible = False
Form1.Panel3D4.Visible = True
For i = 1 To NumberOfCities
    Form1.picCityPick(i).Visible = True
    Form1.picCityPick(i).BackColor = &HFFFFFFF
Next
```

End Sub

Sub ShowItems (Key As Integer)

```
MaxX = Areas(CurrentLocation).XCoord + Int(.5 * PortXGrid)-1
Minx = Areas(CurrentLocation).XCoord - Int(.5 * PortXGrid)
MaxY = Areas(CurrentLocation).YCoord + Int(.5 * PortYGrid)-1
MinY = Areas(CurrentLocation).YCoord - Int(.5 * PortYGrid)
```

```
Set ItemSet = Db.Createdynaset("SELECT DISTINCTROW
Items.Name, Items.Description, Items.Directions,
Items.ItemKey, GridCoord.XCoord, GridCoord.YCoord,
Items.StreetAdd, Items.Phone, Items.Fax,
Items.OwnerManager, Items.Title, Items.OtherAddress,
Categories.Index FROM Items, Categories, Cities,
GridCoord, CatsForItems, Cities LEFT JOIN Items ON
Cities.CityKey = Items.CityKey, Items LEFT JOIN
GridCoord ON Items.GridLoc = GridCoord.GridKey, Items
LEFT JOIN CatsForItems ON Items.ItemKey =
CatsForItems.ItemRef, CatsForItems LEFT JOIN Categories
ON CatsForItems.CatRef = Categories.Index WHERE
```

FOEEO"6289T860

```
((Cities.CityKey = " & CurrentCityKey & ") And  
(Categories.Index = " & Key & ") And (GridCoord.XCoord  
  <= " & MaxX & ") And (GridCoord.XCoord >= " & Minx & ")  
And (GridCoord.YCoord <= " & MaxY & ") And  
(GridCoord.YCoord >= " & MinY & ")) WITH OWNERACCESS  
OPTION;"
```

```
If Not ItemSet.EOF Then  
  ItemSet.MoveLast  
  NumberOfItems = ItemSet.RecordCount  
  'MsgBox " Items: " & NumberOfItems  
Else  
  'MsgBox "No Items for this Category!"  
  Exit Sub  
End If
```

```
ReDim Items(NumberOfItems)
```

```
Index = 1  
ItemSet.MoveFirst  
While Not ItemSet.EOF  
  Items(Index).Key = ItemSet.ItemKey  
  Items(Index).Name = ItemSet.Name  
  Items(Index).Description = ItemSet.Description  
  Items(Index).Directions = ItemSet.Directions  
  Items(Index).XCoord = ItemSet.XCoord  
  Items(Index).YCoord = ItemSet.YCoord  
  Items(Index).StreetAdd = ItemSet.StreetAdd  
  Items(Index).Phone = ItemSet.Phone  
  Items(Index).Fax = ItemSet.Fax  
  Items(Index).OwnerManager = ItemSet.OwnerManager  
  Items(Index).Title = ItemSet.Title  
  Items(Index).OtherAddress = ItemSet.OtherAddress  
  Load Form1.picItemPick(Index)
```

```
Form1.picItemPick(Index).Top = Int((((Items(Index).YCoord  
  - Areas(CurrentLocation).YCoord) / PortYGrid) +  
  .5) * (PortYPix))
```

TOE2E0" 6289F850

```
Form1.picItemPick(Index).Left =  
    Int((((Items(Index).XCoord -  
        Areas(CurrentLocation).XCoord) / PortXGrid) + .5)  
        * (PortXPix))
```

```
'MsgBox " Top : " & Form1.picItemPick(Index).Top & "  
    Left: " & Form1.picItemPick(Index).Left
```

```
Form1.picItemPick(Index).Visible = True  
ItemSet.MoveNext  
Index = Index + 1  
Wend
```

End Sub

```
Sub Timer1_Timer ()  
    Form1.Show 0  
    Splash.Hide  
    Timer1.Enabled = False  
    Unload Splash
```

End Sub